

## **Access Delegation with OAuth2**

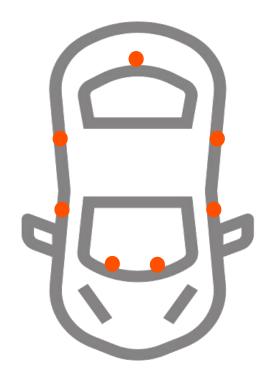


#### **Access Delegation**

- Authorizing an application to access your resources on your behalf
- Enables granting access to execute limited actions depending on the need
- Granted permissions can be revoked from the delegates easily



#### Example: Master Key vs. Valet Key



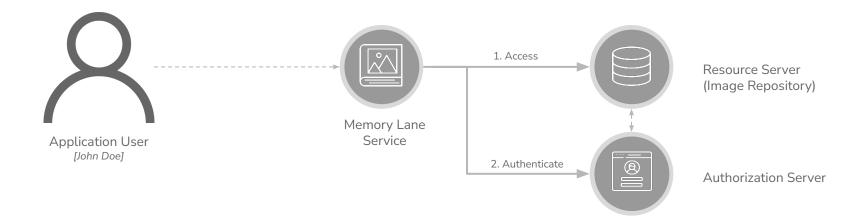
Access Points for the Master Key



Access Points for the Valet Key

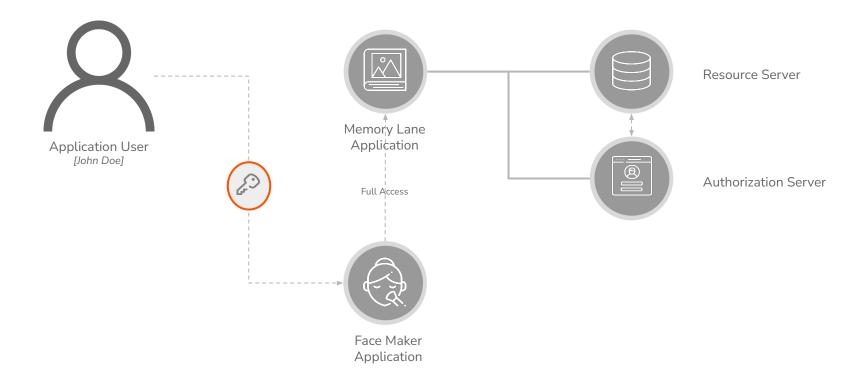


#### **Example: Memory Lane image service**



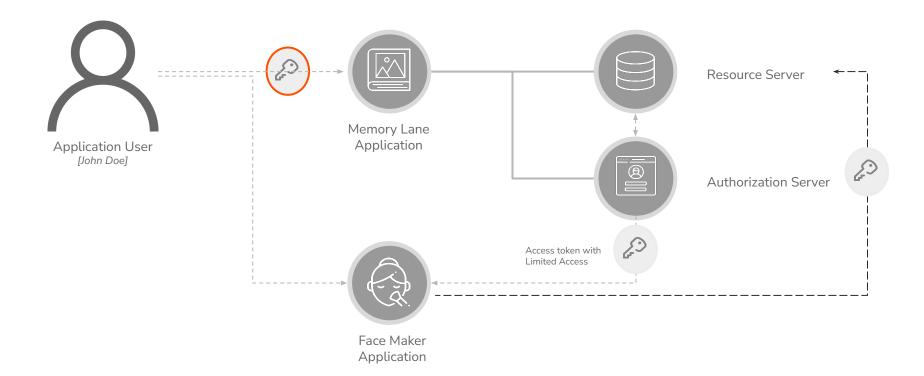


#### Example: Face Maker photo editing service





#### Example: Face Maker accesses images on behalf of users





### An Overview to OAuth2



#### What is OAuth2

- An industry-standard, light-weight protocol used for secure access delegation
- Enables applications to access resources without having to using the account credentials at the application site
- Generates tokens with limited access to facilitate accessing resources securely
- Extensible framework to implement new access delegation use cases



#### **OAuth2 Roles**

#### Who does what



[John Doe]



[Messenger/ Face Maker]



[Google/ Facebook/ Memory Lane Authorization Module]



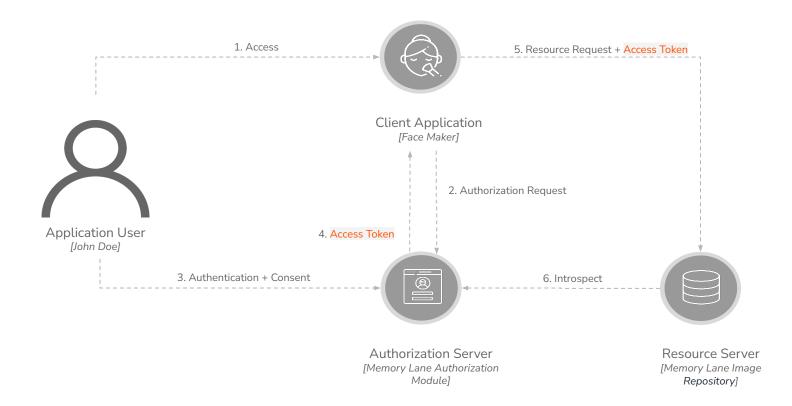
[Memory Lane Repository/ Facebook]



# Sample Scenarios

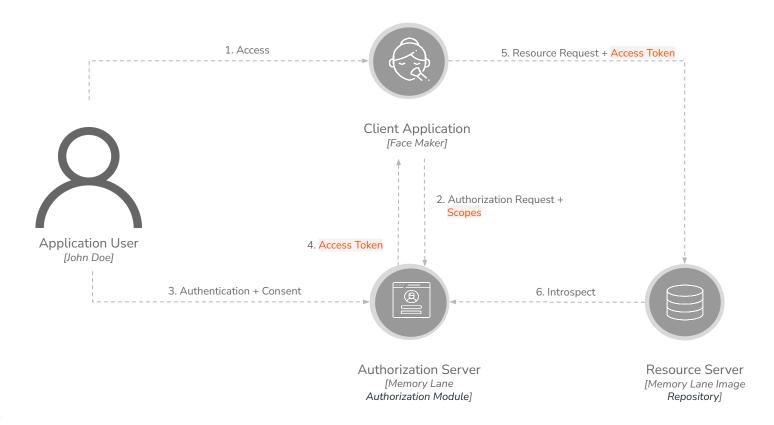


#### **Accessing Third-Party Resources with Access Tokens**



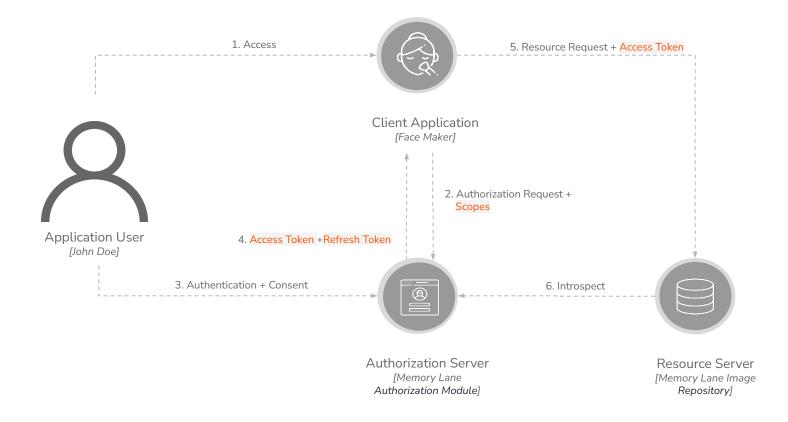


#### Limiting Access to Third-Party Resources with Scopes



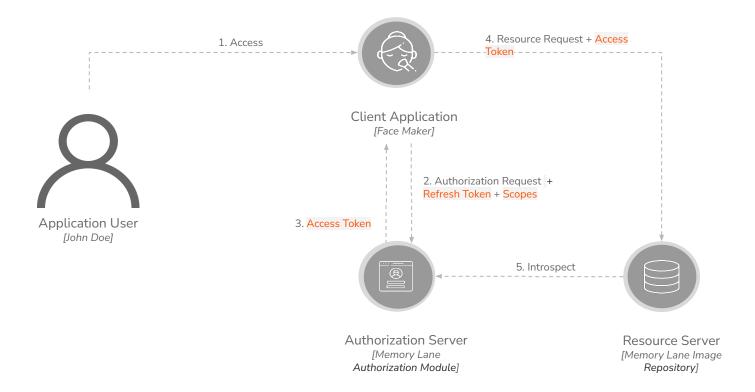


#### **Sustaining the Access Token Validity**





#### Refreshing Access Token Upon Expiry





## **Tokens and Grants**



#### **Token Types - Purpose**



**Duration**: Short **Purpose**: Access resources



**Duration**: Long **Purpose**: Get new access tokens



#### **Token Types - Content**



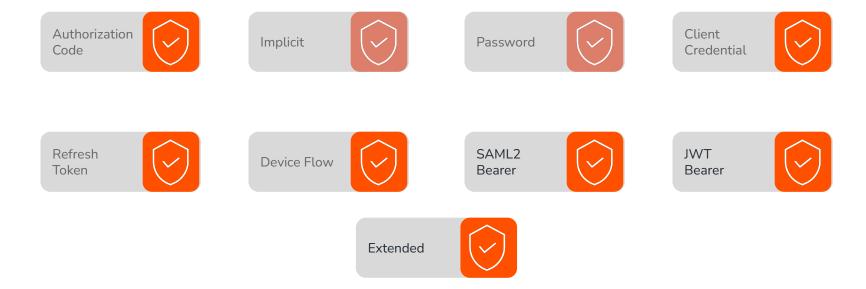
Content: Plain text tokens



**Content**: Self-contained verifiable tokens



#### **Grant Types**





# **Quick Recap**





- 1. Overview of access delegation
- 2. Overview of OAuth 2.0 concepts
- 3. Sample access delegation scenario with OAuth 2.0



## Any Questions?

Reach us through the following channels

https://stackoverflow.com/questions/tagged/wso2-identity-server

https://discord.com/invite/Xa5VubmThw



# Thanks!



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